



Safety Data Sheet

SANONDA
(AUSTRALIA) PTY

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Infosafe

Issue Date : August 2015

ISSUED by SANONDA

Product Name **Lasher™ Cereal Herbicide**

Classified as hazardous

1. Identification

GHS Product Identifier Lasher™ Cereal Herbicide

Product Code 7097

Product Type Group B Herbicide

Company Name Sanonda (Australia) Pty Ltd (ABN 23 059 813 973)

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Recommended use of the chemical and restrictions on use For the control of annual (Wimmera) ryegrass and certain broadleaved weeds in winter cereal crops as per the Directions for Use table on the label.

Other Information This Safety Data Sheet describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

2. Hazard Identification

GHS classification of the substance/mixture ED1 Eye Damage/Irritation: Category 1
SC-2 Skin Corrosion/Irritation: Category 2

Signal Word (s) Caution

Hazard Statement (s) H318 Causes serious eye damage.
H315 Causes skin irritation.

General Precautionary Statement (s) P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

Pictogram (s) Corrosion



Precautionary statement – Prevention P280 Wear protective gloves, clothing, eye and face protection.
P264 Wash hands and exposed skin thoroughly after handling.

Precautionary statement – Response P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

Other Information Poisons Schedule S5

3. Composition/information on ingredients

Chemical Characterization Solid

Ingredients	Name	CAS	Proportion
	Chlorsulfuron	64902-72-3	750 g/kg
	Other ingredients (considered non-hazardous)	--	Balance



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4. First-aid measures

Inhalation	Over-exposure by inhalation is improbable. Check for other causes of observed symptoms and seek medical advice.
Ingestion	If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.
Skin	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
Eye contact	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice immediately.
Advice to Doctor	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	Combustible solid. If involved in a fire, it will emit oxides of carbon, oxides of nitrogen and possibly hydrogen chloride or phosgene.
Special Protective Equipment for fire fighters	Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.
Other Information	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. Accidental release measures

Spills & Disposal	Recover the product by sweeping up or vacuuming without raising dust. Collect spilled material, waste and wash water in sealable open-top type containers for disposal.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.

7. Handling and storage

Precautions for Safe Handling	Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers. Avoid generating dusts while handling the product and mixing. If dusts are generated, it is advisable to wear a dust mask, refer Section 8.
Conditions for safe storage, including any incompatibilities	Store in the closed, original container in a dry, well ventilated area out of direct sunlight.
Tank Cleaning	See label for detailed information on cleaning/decontaminating of spray equipment.
Other Information	Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts not otherwise specified is 10 mg/m ³ .
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Respiratory Protection	Do not inhale spray mist. If dusts are present, wear a class P1 dust mask.
Personal Protective Equipment	It is good practice to wear suitable personal protective equipment (PPE). When opening the container, preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, nitrile or elbow-length PVC gloves and face shield or goggles and disposable dust mask.
Hygiene Measures	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.



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After each day's use, wash contaminated clothing and safety equipment.

9. Physical and chemical properties

Form	Solid
Appearance	White to off-white granulated solid
Melting Point	174 - 178 °C (technical)
Solubility in Water	Disperses in water. Solubility of chlorsulfuron is 7 g/L at pH7
Specific Gravity	No data
Vapour Pressure	Negligible at 25°C
Partition Coefficient: n-octanol/water	Kow Log P is -0.99 at pH7
Flammability	Combustible
pH Value	4.5-6.5 (1% in water)

10. Stability and reactivity

Chemical Stability	Hydrolyses at pH <7.
Possibility of hazardous reactions	Keep away from strong oxidising agents.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

Toxicology Information	No harmful effects are expected if the precautions on the label and this MSDS are followed.
Acute Toxicity - Oral	LD50 (male rats) 5545 mg/kg; (female rats) 6293 mg/kg for chlorsulfuron
Acute Toxicity - Dermal	LD50 (rat) 3400 mg/kg for chlorosulfuron
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >5.9 mg/l for chlorsulfuron
Ingestion	Possible symptoms of exposure include: nausea, vomiting and headache.
Inhalation	May cause irritation to the respiratory tract.
Skin	May irritate the skin.
Eye	The concentrate may cause severe irritation of the eyes unless washed off immediately.
Chronic Effects	No information available, no chronic effects expected.
Other Information	The Australian Acceptable Daily Intake (ADI) for chlorsulfuron for a human is 0.05 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 5 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', March 2014).

12. Ecological information

Persistence and degradability	Slowly hydrolyses in water at neutral pH (50% hydrolysis in 4-8 weeks at 20°C), more rapid hydrolysis occurs in acid solution.
Other Precautions	Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
Environmental Protection	Spray drift can cause damage, read the label for more information.
Acute Toxicity - Fish	Not toxic to fish.
Acute Toxicity - Daphnia	LC50 (96hr) for rainbow trout is >250 mg/l for chlorsulfuron LC50 (48hr) for daphnia is 370 mg/l for chlorsulfuron.



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Acute Toxicity - Algae EC50 (72hr) for Pseudokirchneriella subcapitata 0.068 mg/l for chlorsulfuron.

Acute Toxicity - Other Organisms The following data is for the active ingredient, chlorsulfuron.
Birds: Not toxic to birds. LD50 for mallard ducks and bobwhite quail is >5000 mg/kg
Not toxic to bees.

13. Disposal considerations

Product Disposal On site disposal of the concentrated product is not acceptable.
Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).

Container Disposal Do not use this container for any other purpose.
Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank.
If recycling, replace cap and return clean containers to recycler or designated collection point.
If not recycling, puncture or shred and bury containers in local authority landfill.
If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.
Empty containers and product should not be burnt.

14. Transport information

Transport Information It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.

Storage and Transport Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.
For bulk shipments as Class 9, use UN 3077, HazChem code 2Z.

UN Number (Sea Transport) 3077

IMO Class/Packing Group Class 9; Packing Group III

IMO Marine Pollutant Marine Pollutant

IMO Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains chlorsulfuron)

15. Regulatory information

Poisons Schedule S5

Packaging & Labelling CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Other Information This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 46681.

16. Other Information

Date of preparation or last revision of SDS Revised 28/08/2015
This SDS replaces document dated May 2011.

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Revisions Highlighted The SDS was reviewed to include GHS requirements.
See information in Section 2 - Hazards Identification and Section 11 - Toxicological Information.
...End Of MSDS...

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Print Date: 28/08/2015